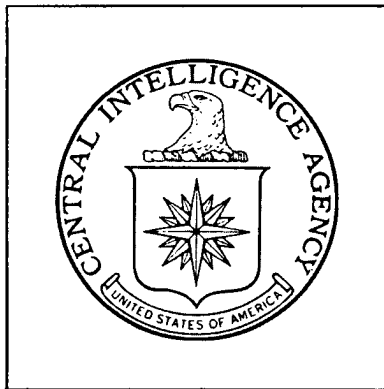


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**DIRECTORATE OF
INTELLIGENCE**

**Industrial Facilities
(Non-Military)**

Basic Imagery Interpretation Report

Pukchang Thermal Power Plant

Pukchang, North Korea



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CENTRAL INTELLIGENCE AGENCY
Directorate of Intelligence
Imagery Analysis Service

| | | |
|---|------------------------|-----------------------------|
| INSTALLATION OR ACTIVITY NAME | | COUNTRY |
| Pukchang Thermal Power Plant | | KN. |
| UTM COORDINATES | GEOGRAPHIC COORDINATES | |
| 52SBU688838 | 39-35-02N 126-18-22E | |
| MAP REFERENCE | | |
| 15th RTS. USATC, Series 200, Sheet M0380-3HL, 5th ed. Feb 68, Scale 1:200,000 (SECRET) | | |
| LATEST IMAGERY USED | | NEGATION DATE (If required) |
| | | |

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ABSTRACT

Pukchang Thermal Power Plant was first seen on photography of August 1967. At that time the only activity observed at the plant was ground clearing in preparation for future construction. Since August 1967, construction of the plant has proceeded at a steady pace. By December 1970, the latest photographic coverage of the plant, the boilerhouse contained five completed boiler units and a sixth unit was under construction. With the exception of the generator hall, the remaining major plant components appeared complete. The plant was observed operating in March and December 1970.

This report includes a photograph of the plant and a chronological summary of construction and operational status.

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FIGURE 1. LOCATION MAP.

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INTRODUCTION

Pukchang Thermal Power Plant is located on the south bank of the Taedong River, approximately 19 nautical miles northeast of Sunchon (see Figure 1).

BASIC DESCRIPTION

Physical Features

The plant occupies an unsecured area measuring approximately 2,300 by 1,600 feet. It is served by both rail and road.

Construction Chronology

The first indication of the plant's construction was observed on photography of August 1967. At that time only ground clearing in preparation for future construction was evident. By January 1968, footings and columns for the generator hall, boilerhouse, and water treatment facility were in place. Three excavations and a rail spur were also observed within the plant. Between January and November 1968, construction continued on the generator hall and the boilerhouse, the stack appeared to be completed, and construction began on the switching yards and support facilities. In addition, rail spurs were observed in the construction support area located east of the plant. By August 1969, two boiler units appeared to have been installed in the boilerhouse, and the water treatment facility, water pump-house, and stand-by fuel storage area appeared complete. A third boiler unit was observed under construction in the boilerhouse on photography of March 1970. Construction was also continuing on the generator hall and the switching yards, and the coal processing building was complete. Five transformers were identified at this time on the south side of the generator hall.

When seen in December 1970, the latest photographic coverage of the plant, the boilerhouse contained five completed boiler units, and a sixth boiler unit was under construction. At the same time, the following plant facilities were observed completed: the control house, the water treatment facility, the water pump-house, the stand-by fuel storage area, the coal handling and processing facility, and two switching yards (see Figure 2). In addition, construction was under way to expand the east end of the eastern switching yard. The closer spacing of equipment within the western switching yard indicates that it was designed for a lower voltage than the eastern switching yard.



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Operational Status

The plant was observed operating for the first time in March 1970. It was also operating in December 1970. On both occasions, coal was seen in open storage next to the coal processing building and smoke was coming from the stack.

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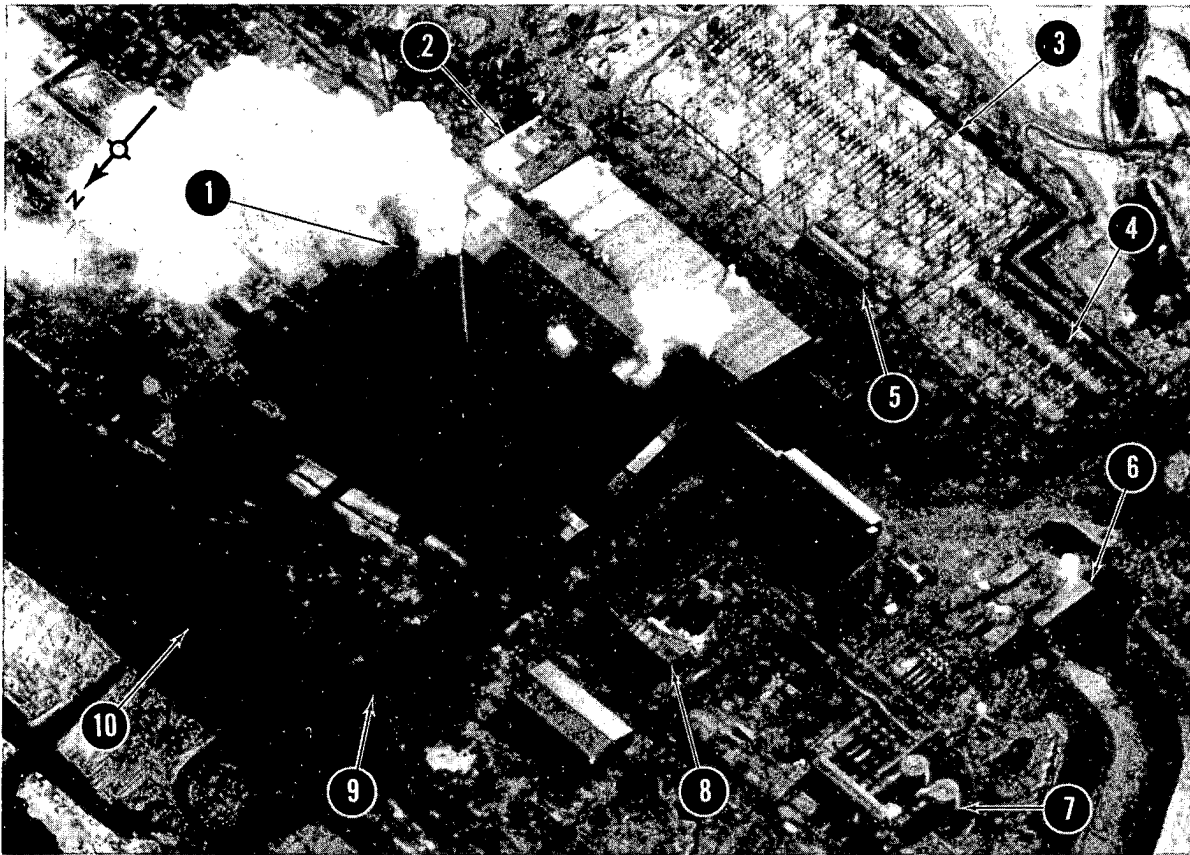


FIGURE 2. PUKCHANG THERMAL POWER PLANT, NORTH KOREA,

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| Key to Annotations | | |
|--------------------|--------------------------|---|
| Item | Description | Dimensions (ft) |
| 1 | Boilerhouse | 600 x 185 |
| 2 | Generator hall | 640 x 130 |
| 3 | Eastern switching yard | --- |
| 4 | Western switching yard | --- |
| 5 | Control house | <div style="border: 1px solid black; width: 100px; height: 100px;"></div> |
| 6 | Water pumphouse | |
| 7 | Stand-by fuel storage | |
| 8 | Water treatment facility | |
| 9 | Coal conveyor | <div style="border: 1px solid black; width: 100px; height: 100px;"></div> |
| 10 | Coal processing building | |

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REFERENCES

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Map

15th RTS. US Air Target Chart, Series 200, Sheet M0380-3H1, 5th edition,
February 1968. Scale 1:200,000 (SECRET)

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Requirement

COMIREX N02
Support Number 429242

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